

Project Goals:

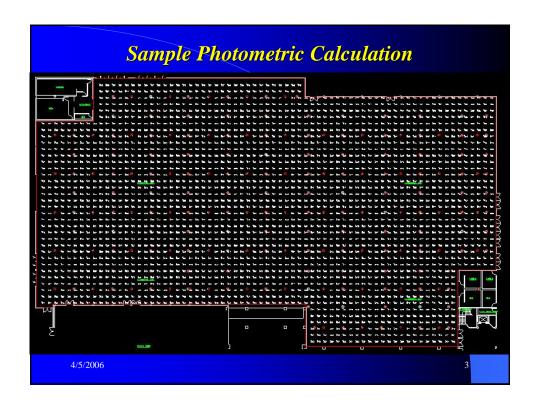
- Provide better lighting to attract customers
- Provide more energy efficient lighting
- ► Minimize construction cost & effort

Design Tools:

> AGI32 lighting software to perform photometric calculations

4/5/2006

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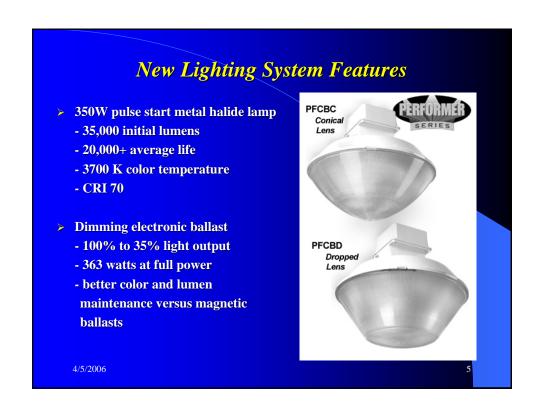


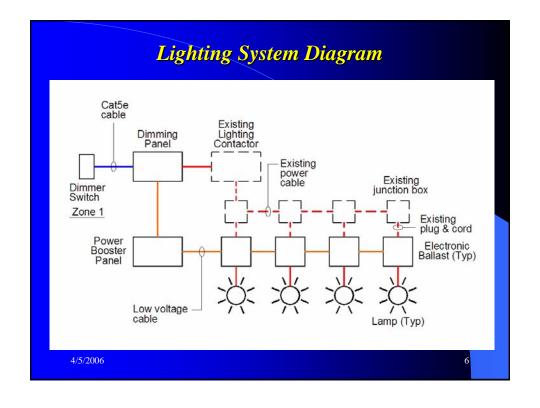
Lighting Technologies Studied

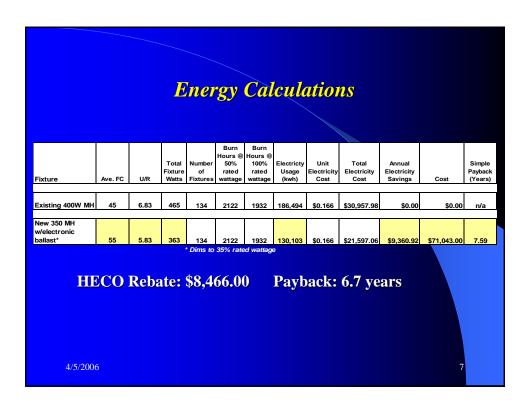
- Existing lighting system (134) 400W metal halide w/ bilevel magnetic ballasts (baseline)
- Re-lamp with 360W metal halide replacement lamp
- Replace lamps (350W) and ballasts (magnetic) only (same fixture)
- > 250W metal halide dual reflector fixtures
- > T5HO linear fluorescent fixtures
- > PL compact fluorescent lamp fixtures
- Optimized system remove one row of 12 fixtures and re-space remaining fixtures

4/5/2006

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Project Summary

- > Systematic approach to achieve our goals
- Used lighting software to establish baseline light levels and to compare different lighting technologies
- Used spreadsheet to compare energy savings and installation costs
- Installed sample fixtures to make final selection of the product

4/5/2006

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